

Bridge Inspection										
Bridge File Number	78903 N-1 Bridge				Form Type	SG				
Year Built/Year Supstr	1979/1979				Lot No.	2				
Bridge or Town Name	CALGARY				Inspector Name	Garry Roberts				
Located Over	WID - WID CANAL, WATERCRS-IC				Inspector Class	BR CLS A				
Located On	2:15 R1 29.993				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	21-Jan-2013				
Legal Land Location	SW SEC 9 TWP 24 RGE 29 W4M				Data Entry By	Lauren Korte				
Longitude, Latitude	-113:59:59, 51:01:32				Data Entry Date	06-Feb-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey				
Contract Main. Area	DEERFOOT/STONE Y				Review Date	29-Jan-2013				
Clear Roadway/Skew	15 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	134,930 / 2011 (A)				Dept. Review Date	21-Feb-2013				
Road Classification	RFD-616.6-130				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	MS23						----> Primary Span			

Posting Information									
Required Load Posting (t)	Single		Semi		Truck Train				
Posted Loading (t)	Single		Semi		Truck Train				
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks									
Other Sign Types	Bridge ices, route								

Utilities (Located at)										
Utility Attachments										
Telephone	In area.				Gas					
Power	Multiple wires East.				Municipal					
Others	Light standards.				Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		6	7	Curve @ North. B3512A					
Vertical Alignment		7	8						
Roadway Width (m)	17.000								
Approach Bump			5	6					
Guardrail (Y/N)	Yes		Isolated spalls at center and shoulder approach parapets.						
Guardrail			4	4					
Length (m)	85.000								
Current Standard (Y/N)	Yes								
Termination Type	TURNDOWN								
Drainage			7	7					
Approach Road General Rating				6	7				

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 4 Spans, Lengths(m): 24.5-30.5-30.5-24.5, A-Ident Number:)						
Special Features						
Special Feature			7	Low clearance buffer @ NE-pedestrian walkway @ North abut.		
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface		6	6	Narrow transverse cracks and isolated small popouts.		
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top		N	N			
Deck Rideability		7	7			
Deck Joints		7	7			
Temperature (deg. C)		-5				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
20	N abut					
45	S abut					
Deck Drainage		6	6	No drains.		
Drains Clogged (Y/N)		No				
Curbs/Median		3	N	(Some of East & all along center parapet surface spalls, cracks & corrosion from low cover rebar). P.R 3. 60% snow covered.		
(Curb Type : JERSEY/F SHAPE)						
Scaling (Percent Area)		10				
Bridge Rail		X	X			
(Type :)						
Bridge Rail Posts		X	X			
(Type :)						
Bridge Rail/Posts Coating		X	X			
(Type :)						
Sidewalk		X	X			
Girder/Beam						
Cover Plate		X	X			
Flange		7	7			
Web		7	7			
Stiffeners		7	7			
Splice		7	7			
Weld		7	7			
Diaphragms/Cross Frame		7	7			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 4 Spans, Lengths(m): 24.5-30.5-30.5-24.5, A-Ident Number:)				
Paint Condition		X	X	Scaling at bottom flanges & lower web at exterior (weathering steel).
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		7	7	
Temperature (deg. C)	-5			
(Expansion Type : POT BEARING)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Minor corrosion stains @ East exterior. Isolated stains @ underside deck exterior.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		4	4	Isolated spalls- photo of NE corner.
Piles		N	N	Buried.
Paint/Coating		3	3	Peeled throughout.
Abutment Stability		7	7	
Scour/Erosion		5	5	Minor settlement and erosion at both abuts.
Piers/Bents				
(Type : PIER-SOLID)				12 piles total.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4:4:4)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				Curve to East.
(D/S Direction : W)				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		7	7	Pit run. Gabion @ SE.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2013	Patch and seal parapets 20m ² (ie- not already done).					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Water test seals and repair/replace as necessary.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch and coat wingwalls. Repair 2m ² spalling at NE.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	58.5/58.5	Est. Repl. Yr	2046	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	21-Oct-2014		Previous Inspection Date	19-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							